

IN THE CLAIMS

This is a complete and current listing of the claims, marked with status identifiers in parentheses. The following listing of claims will replace all prior versions and listings of claims in the application.

1. (Currently Amended) A method for performing a high-throughput analysis, in which samples are analyzed in a continuous ~~run~~ manner and in which biochips with a multiplicity of measurement locations ~~(spots)~~ are used, having ~~the following work steps comprising:~~

~~— applying in a first work step (A), the a measurement liquid is applied to the spots or biochip situated on a carrier;~~
~~— in a further work step (D), analyzing the samples of measurement liquid the measurement is carried out, wherein~~
~~— in this case, both work steps the applying and analyzing (A, D) are effected simultaneously at different spots or biochips, and wherein the carrier is moved to permit~~
~~— as a result of the carrier being moved, a continuous measurement is effected with at a speed that can be predetermined by the a movement cycle of the tape carrier.~~

2. (Currently Amended) The method as claimed in claim 1, ~~characterized in that~~ wherein at least one ~~work step (B, C)~~ ~~for~~ of temperature regulation and/or air conditioning of the measurement liquid samples is interposed between the ~~two work steps (A, D)~~ applying and analyzing.

3. (Currently Amended) The method as claimed in claim 2, ~~characterized in that a work step (B)~~ wherein ~~serves for temperature regulation and a work step (C)~~ the air

conditioning, if performed, serves as residence time of the measurement sample on the biochip.

4. (Currently Amended) The method as claimed in claim 1, ~~one of the preceding claims, characterized wherein~~ in that a temperature regulation is effected in the case of all the work steps (B-D) following the sample supply, in particular in the case of the measure (D) application.

5. (Currently Amended) The method as claimed in claim 1, ~~characterized in that wherein~~ at least one spot array (11, 11a) is enclosed by a hollow body (24, 34, 40) in order to create a spatial separation from other spot arrays.

6. (Currently Amended) The method as claimed in claim 5, ~~characterized in that wherein~~ the hollow body (24, 34) is placed onto the biochip arrangement (1, 1a, 1b) in such a way that it surrounds at least one spot array (11, 11a) in sealing fashion with a peripheral wall (25).

7. (Currently Amended) The method as claimed in claim 5 ~~or 6,~~ wherein ~~characterized in that~~ the hollow body (24, 40) serves for air conditioning of the gas phase present above a spot array (11, 11a).

8. (Currently Amended) The method as claimed in claim 6, ~~characterized in that wherein~~ a rinsing liquid is conducted through the an internal space (35) of the hollow body (34).

9. (Currently Amended) The method as claimed in ~~one of~~ claims 5 ~~to 9,~~ characterized in that wherein a the carrier is one (2, 2a) made of a flat material ~~is used.~~

10. (Currently Amended) The method as claimed in claim 9, ~~characterized in that wherein~~ a biochip arrangement (1b) with a tape-type carrier (2, 2a) made of flexible material is used.

11. (Currently Amended) The method as claimed in claim 10, ~~characterized in that~~wherein the tape-type carrier ~~(2, 2a)~~ is unwound from a roll and transported through an analysis unit ~~(16)~~.

12. (Currently Amended) The method as claimed in ~~one of~~ claims ~~1 to 8~~, ~~characterized by the use of~~ wherein a the carrier is one ~~(2)~~ populated with electrically readable biochips ~~(4)~~.

13. (Currently Amended) The method as claimed in ~~one of~~ claims ~~1 to 9~~, wherein ~~characterized by the use of a the~~ carrier ~~(2, 2a)~~ is one on which analysis-specific data are present.

14. (Currently Amended) The method as claimed in ~~one of~~ claims ~~1 to 13~~, ~~characterized in that~~wherein, for the temperature control of a spot array ~~(11, 11a)~~ or a reaction that takes place there, heat is supplied or dissipated from the rear side region of the carrier ~~(2, 2a)~~ opposite to the array.

15. (Currently Amended) The method as claimed in claim 14, ~~characterized in that~~wherein, for the purpose of supplying heat or dissipating heat, the rear side region is brought into areal contact with a coolable or heatable body ~~(29)~~.

16. (Currently Amended) A device for analyzing samples in a continuous manner and in which biochips with a multiplicity of measurement spots are used ~~for carrying out the method as claimed in claim 1 or one of claims 2 to 12~~, having comprising:

a carrier ~~a biochip arrangement, each biochip having so-called measurement spots, characterized in that~~wherein the biochips ~~(1, 1a, 1b)~~ are fixedly are arranged arrangeable at a mutual distance on a ~~common~~the carrier ~~(2, 2a)~~ made of flat material, the carrier ~~(2, 2a)~~ being able to be moved on movable

in a predeterminable cycle, ~~and the carrier (2, 2a) being assigned;~~

means (19) for supplying the a measurement liquid to the spots or biochips on the carrier; ~~on the one hand, and~~

means (34, 38) for analyzing the samples of measurement liquid, wherein the applying and analyzing are effected simultaneously at different spots or biochips ~~carrying out the measurement, on the other hand.~~

17. (Currently Amended) The device as claimed in claim 16, ~~characterized in that~~wherein the spot arrays (11) ~~are arranged in a depression.~~

18. (Currently Amended) The device as claimed in claim 16 ~~or 17, characterized in that~~wherein data for analysis control and data concerning the type and position of the spot arrays (11, 11a) ~~are present on the carrier (2, 2a).~~

19. (Currently Amended) The device as claimed in claim 18, ~~characterized in that~~wherein the data are stored in at least one memory chip ~~(44).~~

20. (Currently Amended) The device as claimed in ~~one of claims 16 to 19, characterized in that~~wherein the carrier (2, 2a) ~~is essentially formed from a flat material.~~

21. (Currently Amended) The device as claimed in claim 20, ~~characterized in that~~wherein the carrier (2, 2a) ~~is formed as a flexible tape.~~

22. (Currently Amended) The device as claimed in ~~one of claims 16 to 21, characterized in that~~wherein the biochips are electrically readable biochips (4) with in, each case including a spot array (11) and electrical contact areas (9) ~~are present on the carrier (2).~~

23. (Currently Amended) The device as claimed in claim 22,

~~characterized in that~~wherein the spot arrays ~~(11)~~ and the contact areas ~~(9)~~ are arranged on different sides of the carrier ~~(2)~~.

24. (Currently Amended) The device as claimed in claim 22 ~~or 23~~, ~~characterized in that~~wherein the biochips ~~(4)~~ are embedded in an electrically insulating encapsulating composition ~~(13)~~, a cutout ~~(14)~~ that frees the spot array ~~(11)~~ and forms a depression being present in the encapsulating composition ~~(19)~~.

25. (Currently Amended) The device as claimed in claim 24, ~~characterized in that~~wherein a the top side ~~(21)~~ of the encapsulating composition ~~(13)~~ that encompasses the cutout ~~(14)~~ is formed as a planar area.

26. (Currently Amended) The device as claimed in ~~one of~~ claims 18 to 25, ~~characterized in that~~wherein the carrier ~~(2, 2a)~~ has includes a perforation ~~(15)~~ extending in its longitudinal direction.

27. (Currently Amended) The device as claimed in claim 26, ~~characterized in that~~wherein the carrier ~~(2, 2a)~~ has includes a perforation ~~(15)~~ on both sides and a width of 36 mm.

28. (New) The method as claimed in claim 6, wherein the hollow body serves for air conditioning of the gas phase present above a spot array.

29. (New) The device as claimed in claim 17, wherein data for analysis control and data concerning the type and position of the spot arrays are present on the carrier.

30. (New) The device as claimed in claim 29, wherein the data are stored in at least one memory chip.

31. (New) The device as claimed in claim 23, wherein the

biochips are embedded in an electrically insulating encapsulating composition, a cutout that frees the spot array and forms a depression being present in the encapsulating composition.